

Swift Restoration of Damaged Expressways

Restauration rapide des autoroutes urbaines endommagées

Rápida restauración de autopistas dañadas

About 20 hr after the earthquake struck, NEXCO-EAST completely secured emergency vehicle transit, by imparting emergency inspections and temporary recovery immediately after the earthquake. Subsequently, emergency recovery was expeditiously undertaken to open for all vehicles.

Example of Joban Expressway (Mito IC ~ Naka IC)

03/11 16:00



03/12



03/14



03/17 (6 days after earthquake)



Immediately after earthquake hit

Temporary recovery

Emergency recovery

Transit secured for emergency vehicles
Temporary recovery completed

Transit secured for general vehicles
Emergency recovery completed

Know-how that enables quick recovery

Were special technologies and machineries equipment used?

The answer is **No**

1. In-house engineers identified the state of damage and swiftly determined reconstruction methods.
2. Personnel and equipment were procured and deployed through cooperation with group companies and competent contractors.
3. Quick action, scrupulously management and various know-hows made it possible to shorten the work period.



Work efficiency enhanced by borrowing adjacent land



Continuous work day and night



Shorter work period owing to carefully selected materials (crushed stone)



Paving in 2 teams

(Reference) Recovery of Tomei Expressway from the damage caused by Major Earthquake in 2009

- Due to the major earthquake, the 40 meter long embankment of the Tomei Expressway around Makinohara city in Shizuoka Pref. collapsed.
- NEXCO-Central could promptly reopen the closed sections damaged by the earthquake and complete the restoration works on schedule.

<p>August 11th, 2009 05:07 05:08- 06:17 (1h later)</p>	<p>Earthquake occurred The extensive sections of the Tomei was closed (about 250km was closed)</p>	<p>Restoration Works for Emergency Recovery</p>	
<p>13:30(8.5h later) 14:00(9h later)</p>	<p>The slope failure was identified by our staff</p>	<p>Steel Sheet Pile</p>	<p>Large Sandbags</p>
<p>August 12th 24:00(43h later)</p>	<p>Other sections were reopened (about 40km bound for Tokyo was still closed)</p>	<p>Counterweight Concrete</p>	<p>Large Expanded Polystyrol Blocks</p>
<p>August 15th 24:00(115h later)</p>	<p>Emergency recovery was completed and the rest sections were reopened</p>		